IN THE CLAIMS

Please amend the claims as indicated hereinbelow. This listing of the claims hereinbelow replaces all prior versions.

1. – 88. (Cancelled)

89. (Previously Presented) Macroscopic amounts of a fullerene isolated from a sooty carbon product formed from vaporizing elemental carbon soot in the presence of an inert quenching gas.

90. (Previously Presented) A fullerene, isolated from a sooty carbon product formed from vaporizing elemental carbon in the presence of an inert quenching gas, as a visible product.

91. (Previously Presented) The fullerene of Claim 90 isolated as a solid product.

92. (Previously Presented) A fullerene chemically produced that is recovered as a visible solid.

93. (Previously Presented) Macroscopic amounts of an allotrope of carbon consisting solely of carbon atoms, and soluble in non-polar solvents, which allotrope of carbon is neither graphite nor diamond, and which alleotrope of carbon is isolated from a sooty carbon product formed from vaporizing elemental carbon in the presence of an inert quenching gas.

94. (Cancelled)

95. (Previously Presented) A substantially pure product of any one of Claims 89-93.

96. (Previously Presented) A substantially pure crystalline product of any one of Claims 89-93.

97. (Previously Presented) A cage carbon allotrope consisting solely of carbon atoms

that is isolated from a sooty carbon product formed from the vaporization of carbon in the presence of an inert quenching gas as a visible product, said allotrope of carbon being neither graphite nor diamond, and said allotrope of carbon being soluble in non-polar organic solvents.

98. (Currently Amended) A visible solid carbon product prepared by the process comprising:

(a) vaporizing elemental carbon in the presence of an inert quenching gas under conditions effective to provide a sooty carbon product comprising fullerene molecules;

(b) depositing the sooty carbon product on a collecting substrate;

(c) removing the sooty carbon product from the collecting substrate;

(d) contacting the sooty carbon product with a non-polar organic solvent effective to dissolve the fullerene molecules in said sooty carbon product; and

(e) recovering from said visible solvent a solid carbon product comprising [a] fullerene, said visible solid carbon product being substantially fullerene.

99. (Currently Amended) A visible solid carbon product prepared by the process comprising:

(a) vaporizing elemental carbon in the presence of an inert quenching gas under conditions effective to provide a sooty carbon product comprising fullerene molecules;

(b) depositing the sooty carbon product on a collecting substrate;

(c) removing the sooty carbon product comprising fullerene from the sooty carbon product;

(d) subliming the carbon product comprising fullerene from the sooty carbon product; and

(e) condensing the sublimed carbon product and recovering therefrom a visible solid carbon product being substantially [a] fullerene.

100. (Currently Amended) The visible solid carbon product of Claim 98 or 99 wherein the process further comprises:

(f) purifying the carbon product of step (e).

101. (Currently Amended) The visible solid carbon product of Claim 98 or 99 wherein elemental carbon is graphite, amorphous carbon or glassy carbon.

102. (Currently Amended) The visible solid product of Claim 98 or 99 wherein the inert quenching gas is a noble gas.

103. (Currently Amended) The visible solid product of Claim 98 or 99 wherein the carbon is vaporized in a reaction vessel which has been evacuated prior to the carbon vaporization step.

104. (Previously Presented) A fullerene present in amounts sufficient to be visible.

105. (Previously Presented) A visible amount of fullerene in solid form.

106. (Previously Presented) A visible amount of fullerene produced by vaporizing carbon in the presence of an inert quenching gas to produce a sooty carbon product comprising fullerene and separating and isolating the fullerene thus produced therefrom, said fullerene being present in solid form.

107. (New) Macroscopic amounts of a fullerene.